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Atty. Docket No.: 042390.P4918

In Re Application of:

Abdallah et al.

Serial No.: 09/053,006

Filed: March 31, 1998

For: **SYSTEM AND METHOD FOR
PERFORMING AN INSERT-
EXTRACT INSTRUCTION**

Art Unit: 2772

Examiner: Lance Sealey

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PRELIMINARY AMENDMENT

BOX CPA
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In connection with the above-referenced application filed on March 31, 1998,
the Applicants respectfully request consideration of the following preliminary
amendments and remarks.

IN THE CLAIMS

Match & Return

Please amend the claims as follows:

- 1 8. (Amended) A method comprising the computer-implemented [steps of]:
- 2 decoding a single instruction;
- 3 in response to [the step of] decoding the single instruction,
- 4 accessing a first data operand having a data element;
- 5 accessing a second packed data operand having at least two data
- 6 elements;

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7 inserting the data element in the first data operand into a destination
8 field of a destination register.

1 9. (Amended) The method of claim 8 further comprising [the step of] packing
2 floating point data into the data elements.

1 10. (Amended) The method of claim 8 further comprising [the step of] packing
2 integer data into the data elements.

1 11. (Amended) A method comprising the computer-implemented [steps of]:
2 decoding a single instruction;
3 in response to [the step of] decoding the single instruction,
4 accessing a first packed data operand having at least two data elements;
5 and
6 extracting one of the data elements from the first packed data operand
7 into a field of a destination register.

1 12. (Amended) The method of claim 11 wherein [the step of] extracting one of
2 the data elements from the first packed operand comprises extracting one of the data
3 elements from the first packed data operand into a field of a packed destination
4 register.

1 13. (Amended) The method of claim 11 further comprising [the step of] packing
2 floating point data into the data elements.

1 14. (Amended) The method of claim 11 further comprising [the step of] packing
2 integer data into the data elements.

1 15. (Amended) A method comprising the computer implemented [steps of]:
2 accessing data representative of a first three-dimensional image;

3 altering the data using three-dimensional geometry to generate a second
4 three-dimensional image, [the step of] altering at least including,
5 accessing a first data operand having a data element;
6 accessing a second packed data operand having at least two data elements;
7 inserting the data element in the first data operand into a destination field of
8 a destination register; and
9 displaying the second three-dimensional image.

A 1 16. (Amended) The method of claim 15 wherein [the step of] altering includes
2 the performance of a three-dimensional transformation.

1 17. (Amended) The method of claim 15 wherein [the step of] altering includes
2 [the step of] packing floating point data into the data elements.

1 18. (Amended) The method of claim 15 wherein [the step of] altering includes
2 [the step of] packing integer data into the data elements.

1 19. (Amended) A method comprising the computer implemented [steps of]:
2 accessing data representative of a first three-dimensional image;
3 altering the data using three-dimensional geometry to generate a second
4 three-dimensional image, [the step of altering] at least including,
5 accessing a first packed data operand having at least two data elements; and
6 extracting one of the data elements from the first packed data operand into a
7 field of a destination register; and
8 displaying the second three-dimensional image.

1 20. (Amended) The method of claim 19 wherein [the step of] altering further
2 includes [the step of] extracting one of the data elements from the first packed data
3 operand into a field of a packed destination register.

1 21. (Amended) The method of claim 19 wherein [the step of] altering includes
2 the performance of a three-dimensional transformation.

H 1 22. (Amended) The method of claim 19 wherein [the step of] altering includes
2 [the step of] packing floating point data into the data elements.

1 23. (Amended) The method of claim 19 wherein [the step of] altering includes
2 [the step of] packing integer data into the data elements.

REMARKS

Claims 8-23 have been amended. No new matter has been added. Entry of
the foregoing amendments is hereby respectfully requested.

Respectfully submitted,
BLAKELY, SOKOLOFF, TAYLOR, & ZAFMAN LLP

Dated: April 5, 2000

By: _____

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Azar Burnham

April 5, 2000